

CHARGE NUMBER: 1708
PROJECT TITLE: Physical and Chemical Properties of Tobacco
PERIOD COVERED: November 1-30, 1985
PROJECT LEADER: H. A. Hartung
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I. Mechanical Properties of Treated Papers

Objective: To characterize papers treated with foam binding agents.

Status: At heavy loadings of foam binding agents there was no appreciable effect on the stiffness of papers. This showed that the binders operate by gluing shred contacts and not by increasing shred stiffness. No further work is planned.

II. Impact Breakage Studies

Objective: To explore the effects of additives on the impact breakage of tobacco shreds.

Status: Data have been obtained on RLTC and RL 150-B samples plasticized with PG, PG/glycerine or TEG (as controls). RL 150-B showed much less degradation at equilibrium moisture because it had considerably higher OV levels. In the RLTC system, PG/glycerine was about the same as the TEG controls while PG alone was clearly inferior.

Plans: Compare laboratory breakage data with large scale survivability studies.

III. New Plasticizers and Humectants

Objective: To unearth new materials for screening as plasticizers and humectants for smoking products.

Status: Preliminary literature reviews have identified 60 candidates for further study.

Plans: Complete search and review steps. Select most promising candidates for further studies.

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